FIG. 1

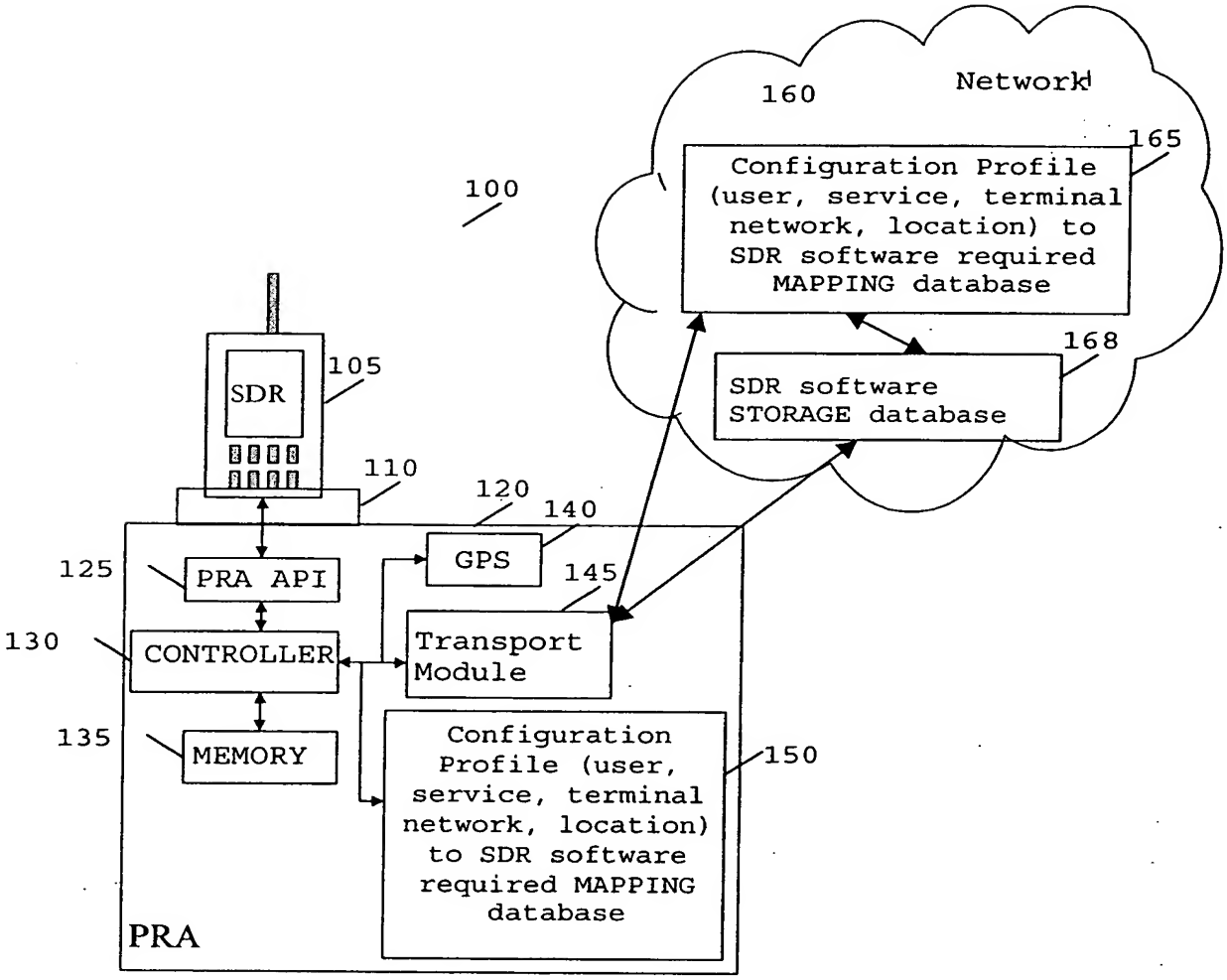

Network
160
165
Configuration Profile (user, service, terminal network, location) to SDR software required MAPPING database
100
168
SDR software STORAGE database
SDR
105
110
120
140
125
PRA API
GPS
145
130
CONTROLLER
Transport Module
135
MEMORY
Configuration Profile (user, service, terminal network, location) to SDR software required MAPPING database
150
PRA

FIG. 2

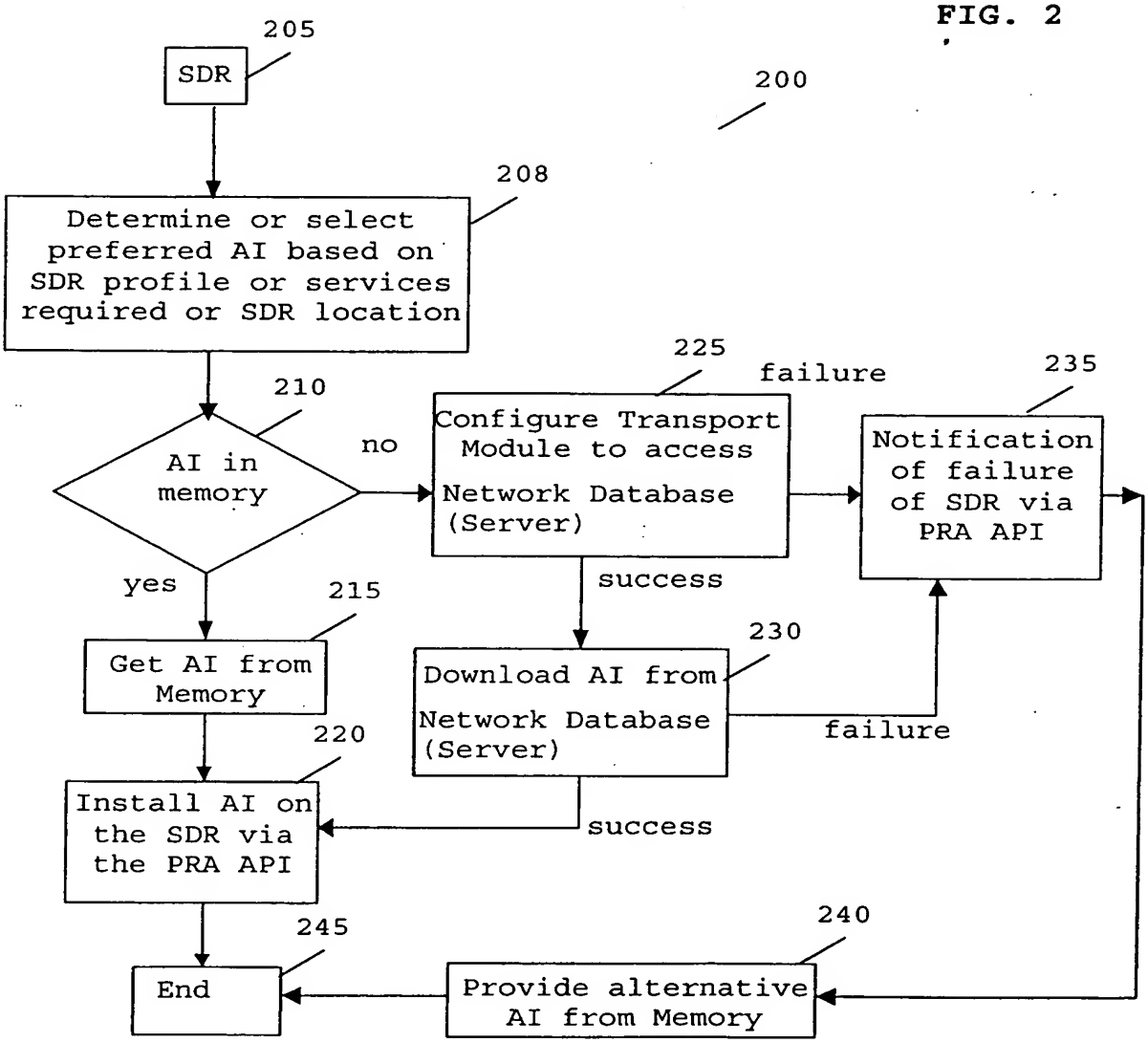
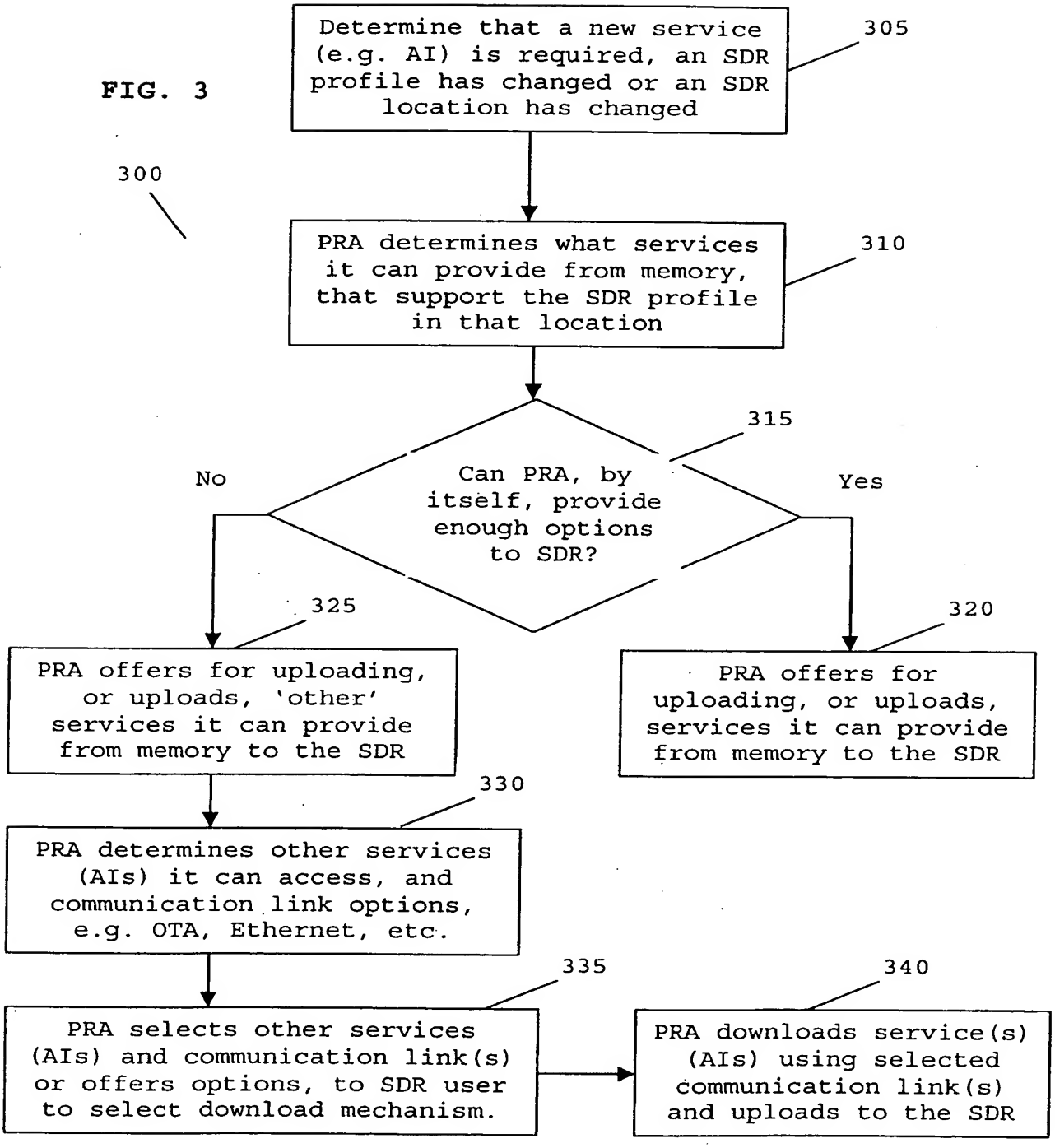

205
SDR
200
208
Determine or select preferred AI based on SDR profile or services required or SDR location
225
failure
235
210
AI in memory
no
Configure Transport Module to access Network Database (Server)
Notification of failure of SDR via PRA API
yes
215
success
Get AI from Memory
230
Download AI from Network Database (Server)
failure
220
Install AI on the SDR via the PRA API
success
245
240
End
Provide alternative AI from Memory

FIG. 3


300
Determine that a new service (e.g. AI) is required, an SDR profile has changed or an SDR location has changed
305
PRA determines what services it can provide from memory, that support the SDR profile in that location
310
Can PRA, by itself, provide enough options to SDR?
315
No
Yes
PRA offers for uploading, or uploads, 'other' services it can provide from memory to the SDR
325
PRA offers for uploading, or uploads, services it can provide from memory to the SDR
320
PRA determines other services (AIs) it can access, and communication link options, e.g. OTA, Ethernet, etc.
330
PRA selects other services (AIs) and communication link(s) or offers options, to SDR user to select download mechanism.
335
PRA downloads service(s) (AIs) using selected communication link(s) and uploads to the SDR
340

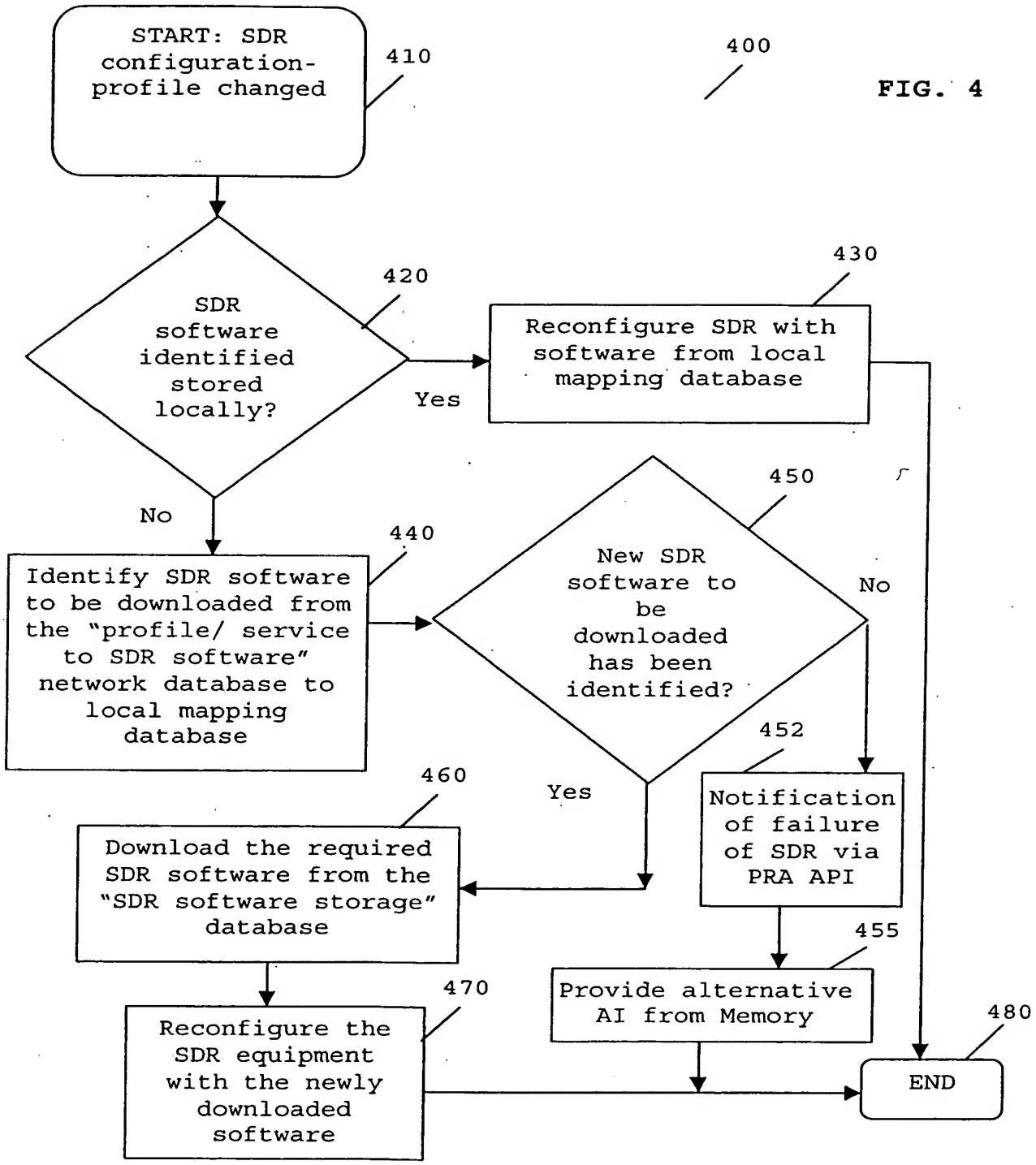

START: SDR configuration-profile changed
410
400
SDR software identified stored locally?
420
Yes
Reconfigure SDR with software from local mapping database
430
No
Identify SDR software to be downloaded from the "profile/ service to SDR software" network database to local mapping database
440
New SDR software to be downloaded has been identified?
450
No
Yes
Download the required SDR software from the "SDR software storage" database
460
Notification of failure of SDR via PRA API
452
Provide alternative AI from Memory
455
Reconfigure the SDR equipment with the newly downloaded software
470
END
480

FIG. 4

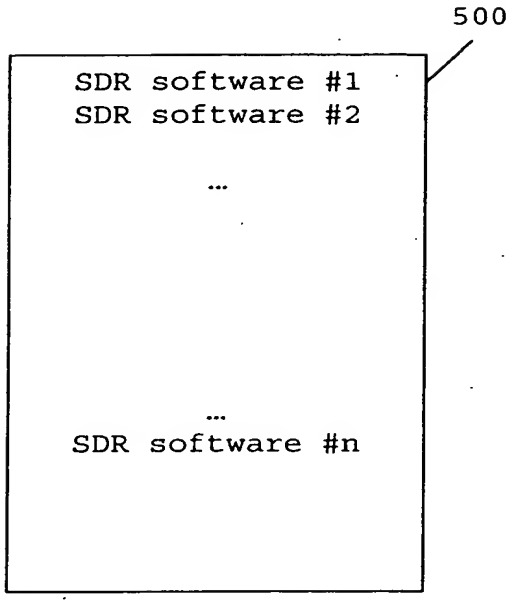


FIG. 5

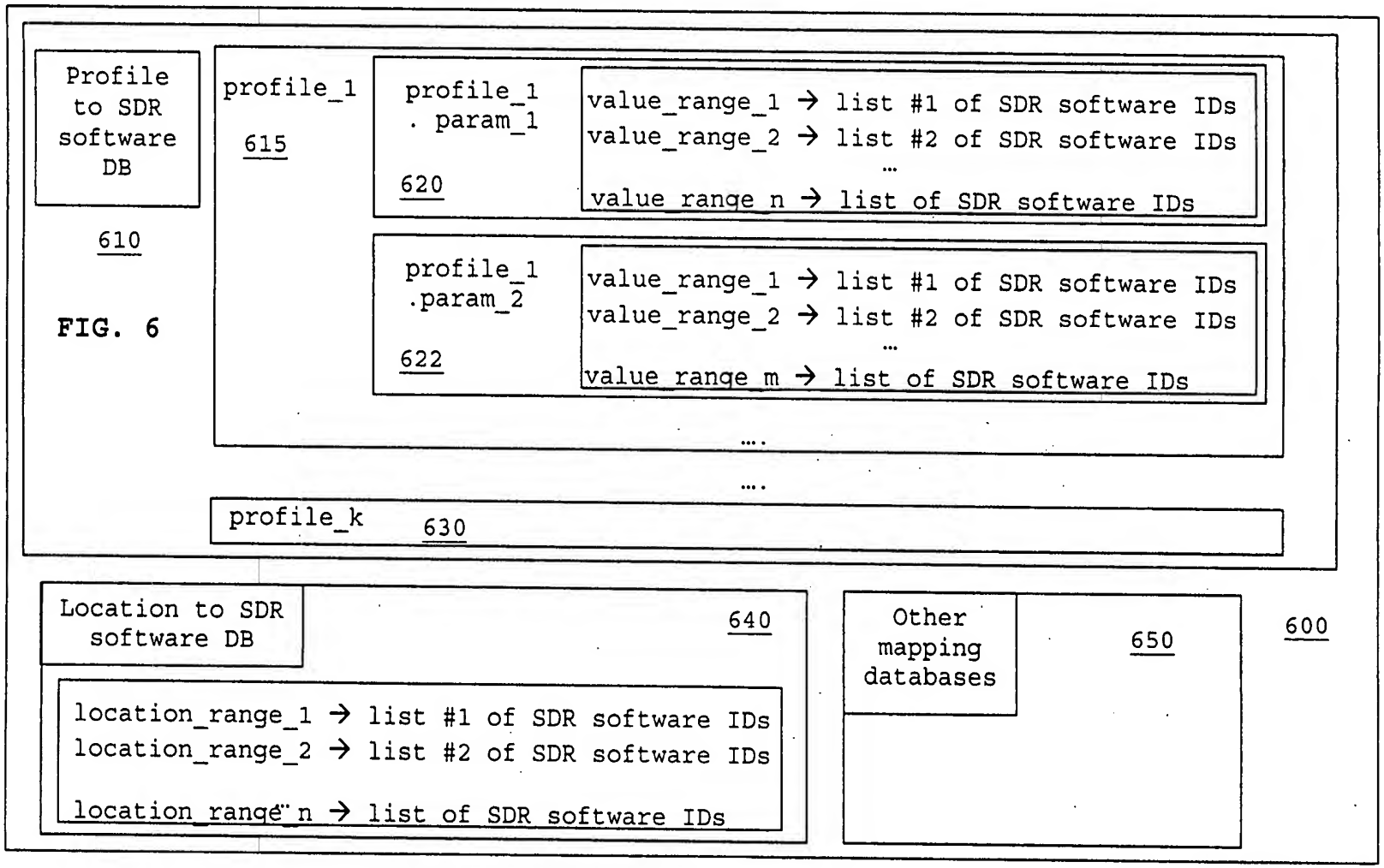


FIG. 6

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